

GP8L

FAST, COMPACT EXTENDED-REACH ROBOT

KEY BENEFITS

Extended reach and high speeds allow use in a variety of applications

Space-efficient design

Engineered for easy installation, operation and maintenance

Single robot-to-controller cable connection enables fast setup

SPECIFICATIONS

8 kg payload

1,636 mm horizontal reach

2,894 mm vertical reach

0.02 mm repeatability

APPLICATION

Assembly

Dispensing

Machine Tending

Material Handling

Packaging

Part Transfer

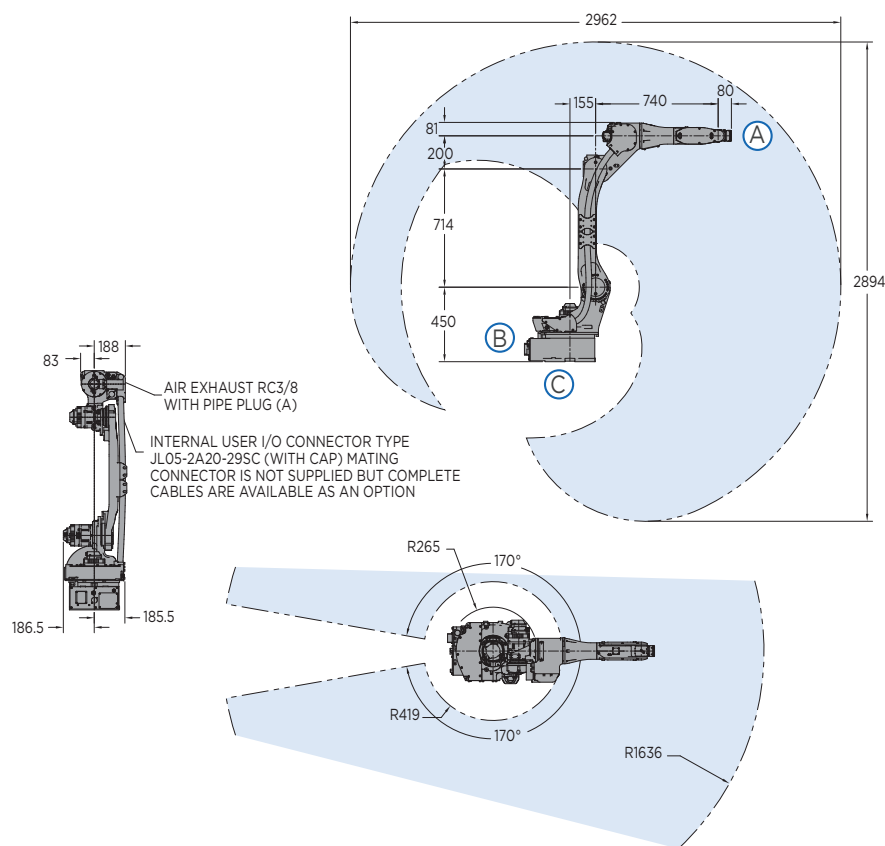
CONTROLLER

YRC1000

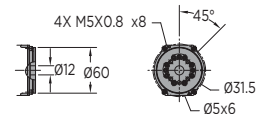


- Increase your productivity with the fast and efficient GP8L robot.
- Extended-reach, six-axis robot offers superior performance for a variety of applications.
- Compact footprint, slim body design allows for minimum installation space.
- Exceptionally fast axis speeds and acceleration capabilities reduce cycle time and increase production output.
- Reduced interference design allows close proximity placement of robots for high-density workcells.
- Wide wrist motion range eliminates interference and improves application flexibility.
- Mounting for peripheral equipment is provided in multiple locations to make integration easier.
- Cable installation tube facilitates fieldbus routing through the S-axis.
- Single power and control cable reduces wiring time and increases work efficiency.
- Modular robot harness design for improved diagnostics and maintenance.
- Home position data can be saved without battery connection for easy maintenance.
- The GP8L has an IP67-rated wrist and an IP54 body standard.
- The GP8L robot can be floor-, wall-, tilt- or ceiling mounted. Brakes are included on all axes.
- The GP8L is available with either the standard teach pendant or the Smart Pendant.
- Compact YRC controller utilizes the lightweight standard teach pendant with intuitive programming.

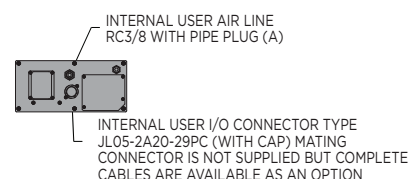
GP8L ROBOT



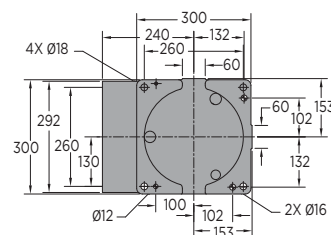
VIEW A



VIEW B



VIEW C



All dimensions are metric (mm) and for reference only.
Request detailed drawings for all design/engineering requirements.

SPECIFICATIONS

Axes	Maximum motion range	Maximum speed	Allowable moment	Allowable moment of inertia
	degrees	°/sec	N·m	kg·m ²
S	±170	260	-	-
L	+155/-90	230	-	-
U	+150/-85	260	-	-
R	±200	470	17	0.5
B	±135	550	17	0.5
T	±360	1,000	10	0.2

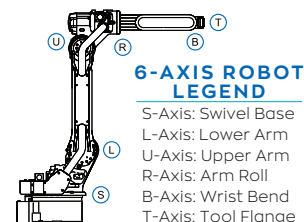
Mounting Options: Floor, Wall, Tilt or Ceiling

* The MLX300 software option is not available for use with arc or spot welding applications.
MLX300 fieldbus cards, I/O cards and vision equipment must be purchased separately from the supplier. All peripherals are programmed using a PLC.

Item	Unit	GP8L
Controlled axes		6
Maximum payload	kg	8
Repeatability	mm	0.02
Horizontal reach	mm	1,636
Vertical reach	mm	2,894
Weight	kg	155
Internal user I/O cable		16 conductors w/ ground
Internal user air line		(1) 3/8" connection
Power requirements		380-480 VAC
Power rating	kVA	1.5

OPTIONS

- Robot risers and base plates
- Extended length manipulator cables
- Wide variety of fieldbus cards
- External axes
- PLC integration via MLX300 software option*
- Functional Safety Unit (FSU)
- MotoSight™ 2D and 3D vision



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